PTO/SB/05 (01-04) Approved for use through 07/31/2006. OMB 0651-0032

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UTILITY PATENT APPLICATION **TRANSMITTAL**

SGK - 2306 Attorney Docket No. Valery Rupasov First Inventor Nanophotonic Devices... Title

(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	sid				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commiss P.O. Box	Patent Application ioner for Patents 1450 at VA 22313-1450				
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 28] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	ii. Paper c. Statements verifyin ACCOMPANYING AI	endix) Sequence Submission Form (CRF) Ence Listing on: CD-R (2 copies); or g identity of above copies				
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 8] 5. Oath or Declaration [Total Sheets 2] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76	10. 37 CFR 3.73(b) Statemer (when there is an assignation Document of the control	Attorney cument (if applicable) Copies of IDS 449 Citations t d (MPEP 503) itemized) y Document(s) med) t under 35 U.S.C. 122 ust attach form PTO/SB/35				
-	ation-in-part (CIP) of prior application	on No.:				
Prior application information: Examiner Art Unit: For CONTINUATION OR DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.						
19. CORRESPON	DENCE ADDRESS					
Customer Number:	OR Corre	spondence address below				
Name Dr. Sergei Krivoshlykov						
Address Address ALTAIR Center, LLC						
1 Chartwell Circle City Shrewsbury	State MA	Zip Code 01545				
	elephone (508) 845-5349	Fax (508) 845-5349				
Name (Print/Type) Dr. Sergei Krivoshlykov	Registration No. (Attorney/Agent)	1 (000) 010 0010				
Signature This collection of the street of t		Date 02/20/2004				

This collection of information is required by 37 CFR/153(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/17 (10-03)
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

Name (Print/Type)

Signature

Dr. Sergei Krivoshlykov

Complete if Known		
Application Number		
Filing Date	02/20/2004	
First Named Inventor	Valery Rupasov	
Examiner Name		
Art Unit		
Attorney Docket No.	SGK - 2306	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES	South Carlotte St. Transport Plant 1.				
Deposit Account:	Large Entity Small Entity					
Deposit	Fee Fee Fee Fee Fee Description					
Account		Fee Paid				
Number Deposit	1051 130 2051 65 Surcharge - late filing fee or oath 1052 50 2052 25 Surcharge - late provisional filing fee or	<u> </u>				
Account Name	cover sheet					
The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification					
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination	-				
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action					
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action					
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month					
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month					
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month					
Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254 1,480 2254 740 Extension for reply within fourth month					
1001 770 2001 205 Helibu Gling for	1255 2,010 2255 1,005 Extension for reply within fifth month					
1002 340 2002 170 Design filing fee 385	1401 330 2401 165 Notice of Appeal					
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal					
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing					
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 385	1452 110 2452 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional					
Fee from	1501 1,330 2501 665 Utility issue fee (or reissue)					
Extra Claims below Fee Paid Total Claims 20 -20** = 0 x = 0	d 1502 480 2502 240 Design issue fee					
Independent Company	1503 640 2503 320 Plant issue fee					
Independent 2 - 3** = 0 X = 0 Multiple Dependent	1460 130 1460 130 Petitions to the Commissioner					
Wortiple Dependent	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)					
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt					
Code (\$) Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)	40				
1202 18 2202 9 Claims in excess of 20	1809 770 2809 385 Filing a submission after final rejection	\vdash				
1201 86 2201 43 Independent claims in excess of 3	(37 CFR 1.129(a))					
1203 290 2203 145 Multiple dependent claim, if not paid	1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))					
1204 86 2204 43 ** Reissue independent claims over original patent	1801 770 2801 385 Request for Continued Examination (RCE)					
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application					
SUBTOTAL (2) (\$) 0 Other fee (specify)						
**or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40						
SUBMITTED BY (Complete (if applicable))						

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Registration No.

Telephone (508)8455349

02/20/2004

Date

Attorney's	Docket	No.	 _

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of inventor(s):

Valery Rupasov Sergei Krivoshlykov

WARNING: Patent must be applied for in the name(s) of all of the actual inventor(s). 37 CFR 1.41(a) and 1.53(b). For (title):

Nanophotonic Devices based on Quantum Systems Embedded in Frequency Bandgap Media

CERTIFICATION UNDER 37 CFR 1.10

(type, or print name of person mailing paper)

Signature of person mailing paper

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

WARNING: Certificate of malling (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a date of malling or transmission for this correspondence.